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Infect Immun. 1992 May ;60 (5):2125-7 1348725 (P,S,G,E,B) Cited:25

Urease-associated heat shock protein of *Helicobacter pylori*.

D J Evans Jr, D G Evans, L Engstrand, D Y Graham

Bacterial Enteropathogens Laboratory, Veterans Affairs Medical Center, Houston, Texas.

Helicobacter pylori urease is an extracellular, cell-bound enzyme with a molecular weight of approx 66K and six 31K subunits. A 62K protein is closely associated with the *H. pylori* urease, both of which can be removed from the urease by ion-exchange chromatography without inactivating it. The protein is determined and its N-terminal amino acid sequence. The sequence is 80% homologous to the Escherichia coli GroEL heat shock protein (HSP), 75% homologous to the human homolog, a in species of Chlamydia. Thus, the 62K urease-associated protein of *H. pylori* belongs to the chaperonins. Evidently this protein, HSP62, participates in the extracellular assembly and/or protection of the hostile environment of the stomach.

Mesh-terms: *Helicobacter pylori* :: chemistry; Urease :: analysis; Amino Acid Sequence; Bacterial Protein analysis; Heat-Shock Proteins :: immunology; Heat-Shock Proteins :: physiology; Molecular Sequence Data; Gov't, P.H.S.;

Latest citations:

Infect Immun. 2005 Jul ;73 (7):4295-301 15072522 (P,S,G,E,B)

Production of nontypeable *Haemophilus influenzae* HtrA by recombinant filamentous hemagglutinin as a carrier.

Sylvie Alonso, Eve Willery, Geneviève Renaud-Mongénie, Camille Locht

INSERM U629, Institut Pasteur de Lille, 1 rue du Prof. Calmette, F-59019 Lille, France.

Infect Immun. 2005 May ;73 (5):2999-3006 15548507 (P,S,G,E,B) Cited:1

B-cell and T-cell immune responses to experimental *Helicobacter pylori* infection.

Zhanna Z Nurgalieva, Margaret E Conner, Antone R Opekun, Carl Q Zheng, Susan N Elliott, Peter B Ernst

VAMC Rm. 3A-320 (111D), 2002 Holcombe Blvd., Houston, TX 77030, USA.

Clin Diagn Lab Immunol. 2004 May ;11 (3):569-76 15128184 (P,S,G,E,B) Cited:1

Comparison of Different Criteria for Interpretation of Immunoglobulin G Immune Response to *Helicobacter pylori* Infection.

Philipp M Lepper, Angelika Möricke, Konstanze Vogt, Günter Bode, Matthias Trautmann

Department of Internal Medicine II, University of Ulm, Robert-Koch-Str. 8, 89081 Ulm, Germany. philipp.lepper@med.uni-ulm.de

J Bacteriol. 2004 May ;186 (10):2958-65 15126455 (P,S,G,E,B) Cited:3

Dual control of *Helicobacter pylori* heat shock gene transcription by HspR and
Gunther Spohn, Alberto Danielli, Davide Roncarati, Isabel Delany, Rino Rappuoli, Vincenzo Scarlato
Biochemistry and Molecular Biology Unit, IRIS, 53100 Siena. Department of Biology, University of Bologna

Infect Immun. 2003 Dec; 71 (12):6933-42 14636782 (P,S,G,E,B) Cited:2

Mitogenic effect of *Bartonella bacilliformis* on human vascular endothelial cells
Michael F Minnick, Laura S Smitherman, D Scott Samuels
Division of Biological Sciences, The University of Montana, Missoula, Montana 59812-4824.

J Clin Microbiol. 2003 Apr; 41 (4):1480-5 12682133 (P,S,G,E,B) Cited:2

Evaluation of the effects of strain-specific antigen variation on the accuracy
pylori infection.
Patrice A Marchildon, Toshiro Sugiyama, Yoshihiro Fukuda, Jeffrey S Peacock, Masahiro Asaka, Takashi S

Enteric Products, Inc., Stony Brook, New York, USA. pmarchildon@ezem.com

Infect Immun. 2002 Aug; 70 (8):4621-7 12117975 (P,S,G,E,B) Cited:4

Effects of oral vaccination and immunomodulation by cholera toxin on expe
reinfection, and gastritis.
S Raghavan, A-M Svensson, J Holmgren

Department of Medical Microbiology and Immunology and Göteborg University Vaccine Research Institute,
J Bacteriol. 2002 Jun; 184 (11):2925-30 1203932 (P,S,G,E,B) Cited:3

Characterization of the HspR-mediated stress response in *Helicobacter pylori*.
Gunther Spohn, Isabel Delany, Rino Rappuoli, Vincenzo Scarlato
Department of Molecular Biology, IRIS, Chiron S.p.A., 53100 Siena, Italy.

Clin Diagn Lab Immunol. 2002 Jan; 9 (1):97-100 11777836 (P,S,G,E,B)

Specific serum immunoglobulin G response to urease and CagA antigens of I
and adults in a country with high prevalence of infection.
Javier Torres, Margarita Camorlinga-Ponce, Guillermo Perez-Perez, Leopoldo Muñoz, Onofre Muñoz

Unidad de Investigacion en Enfermedades Infectuosas, Hospital de Pediatría, CMN SXI, Instituto Mexico
Mexico D.F., 06720 Mexico City, Mexico. jtorresl@atxel.net

J Bacteriol. 2000 Aug; 182 (15):4257-63 10994735 (P,S,G,E,B) Cited:3

Transcriptional analysis of major heat shock genes of *Helicobacter pylori*.
G Homuth, S Domm, D Kleiner, W Schumann
Institute of Genetics, University of Bayreuth, D-95440 Bayreuth, Germany.

Other papers by authors:

Gastroenterology. 1996 Apr; 110 (4):1091-5 8612980 (P,S,G,E,B) Cited:14

***Helicobacter pylori* in the drinking water in Peru.**

K Hulten, S W Han, H Enroth, P D Klein, A R Opekun, R H Gilman, D G Evans, L Engstrand, D Y Graham,

Inflammatory Bowel Diseases Laboratory, Veterans Affairs Medical Center, Houston, Texas, USA.

Gastroenterology, 1996 Jan; 110 (1):21-9 8536858 (P,S,G,E,B)

Extract of *Helicobacter pylori* induces neutrophils to injure endothelial cells an
T Takemura, D N Granger, D J Evans Jr, D G Evans, D Y Graham, D C Anderson, R E Wolf, G Cepinskas,
Department of Physiology, Louisiana State University Medical Center, Shreveport, USA.

Scand J Gastroenterol. 1994 Jun; 29 (6):481-2 8079162 (P,S,G,E,B)

***Helicobacter pylori* alcohol dehydrogenase in perspective: an interesting findir**
D Y Graham, D J Evans Jr, D G Evans

Dept. of Medicine, Veterans Affairs Medical Center, Houston, Texas.

Gastroenterology, 1994 Jul; 107 (1):70-5 8020691 (P,S,G,E,B) Cited:1

***Helicobacter pylori*-induced microvascular protein leakage in rats: role of neut**
I Kurose, D N Granger, D J Evans Jr, D G Evans, D Y Graham, M Miyasaka, D C Anderson, R E Wolf, G C
Department of Physiology, Louisiana State University Medical Center, Shreveport.

Gastroenterology, 1993 Nov; 105 (5):1431-40 7931169 (P,S,G,E,B) Cited:9

Mechanisms involved in *Helicobacter pylori*-induced inflammation.

N Yoshida, D N Granger, D J Evans Jr, D G Evans, D Y Graham, D C Anderson, R E Wolf, P R Kvietys
Department of Physiology, Louisiana State University Medical Center, Shreveport.

Infect Immun. 1995 Jun; 63 (6):2213-20 7768601 (P,S,G,E,B) Cited:19

Characterization of a *Helicobacter pylori* neutrophil-activating protein.

D J Evans Jr, D G Evans, T Takemura, H Nakano, H C Lampert, D Y Graham, D N Granger, P R Kvietys
Bacterial Enteropathogens Laboratory, Veterans Affairs Medical Center, Houston, Texas 77030, USA.

J Bacteriol. 1993 Feb; 175 (3):674-83 7678592 (P,S,G,E,B) Cited:24

Cloning, nucleotide sequence, and expression of a gene encoding an adhesin i

D G Evans, T K Karjalainen, D J Evans Jr, D Y Graham, C H Lee

Department of Medicine, Baylor College of Medicine, Houston, Texas 77030.

Am J Gastroenterol. 1995 Aug; 90 (8):1282-8 7639231 (P,S,G,E,B) Cited:7

Restriction fragment length polymorphism in the adhesin gene hpaA of Helicol

D G Evans, D J Evans Jr, H C Lampert, D Y Graham

Department of Medicine, Baylor College of Medicine, Houston, Texas, USA.

Gastroenterology, 1994 Oct; 107 (4):934-40 8381216 (P,S,G,E,B) Cited:14

Administration of purified colonization factor antigens (CFA/I, CFA/II) of
volunteers. Response to challenge with virulent enterotoxigenic Escherichia coli

D G Evans, D Y Graham, D J Evans Jr

Scand J Gastroenterol Suppl. 1993;142:9-12 3168539 (P,S,G,E,B) Cited:5

Epidemiology of *Campylobacter pylori* infection: ethnic considerations.

D Y Graham, P D Klein, A R Opekun, T W Boutton, D J Evans Jr, D G Evans, L C Alpert, P A Michaletz, H

Department of Medicine, Children's Nutrition Research Center, Baylor College of Medicine, Houston, Texas:

Latest similar papers:

Proteins. 2007 Oct 23; : 17957768 (P,S,G,E,B,D)

Solution structure of conserved hypothetical protein HP0892 from Helicobacter pylori
Kyung-Doo Han, Sung-Jean Park, Sun-Bok Jang, Bong-Jin Lee

Nippon Rinsho. 2006 Feb ;64 (2):286-92 16454183 (P,S,G,E,B)

[Super catalytic antibodies (antigenase) capable of destroying H. pylori urease
Uda Taizo, Emi Hifumi, Yoshiko Okamura

Faculty of Life and Environmental Science, Prefectural University of Hiroshima.

Proteins. 2006 Oct 17; : 16291332 (P,S,G,E,B,D)

Solution structure of conserved hypothetical protein HP0894 from Helicobacter pylori
Kyung-Doo Han, Sung-Jean Park, Sun-Bok Jang, Woo-Sung Son, Bong-Jin Lee
National Laboratory of Membrane Protein Structure (MPS), Research Institute of Pharmaceutical Sciences, Seoul, Korea.

Helicobacter. 2005 Oct ;10 (5):416-23 15181352 (P,S,G,E,B,D) Cited:1

Contribution of dppA to urease activity in Helicobacter pylori 26695.
Gregg S Davis, Harry L T Mobley

Department of Microbiology and Immunology, University of Michigan Medical School, Ann Arbor 48109-0616

Helicobacter. 2003 Aug ;8 (4):257-67 12950598 (P,S,G,E,B)

Surface localized Heat Shock Protein 20 (HsIV) of Helicobacter pylori.
Rui Juan Du, Bow Ho
Department of Microbiology, National University of Singapore, 5 Science Drive 2, Singapore 117597.

Zhonghua Liu Ying Bing Xue Za Zhi. 2003 Jun ;24 (6):439-42 12848804 (P,S,G,E,B)

[Primary analysis on protein maps of Helicobacter pylori strains associated with different virulence factors]
Bo-qing Li, Jian-zhong Zhang, Qing-hua Zou, Li-hua He, Xiao-mei Yan
Department of Diagnosis, Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China.

Oral Microbiol Immunol. 2003 Apr ;18 (2):79-87 12654095 (P,S,G,E,B) Cited:1

Helicobacter pylori and Campylobacter rectus share a common antigen.

S Tanabe, D Hinode, M Yokoyama, M Fukui, R Nakamura, M Yoshioka, D Grenier, D Mayrand
Department of Preventive Dentistry, School of Dentistry, The University of Tokushima, Tokushima City, Japan

J Mass Spectrom. 2003 Mar ;36 (3):315-20 12644993 (P,S,G,E,B) Cited:1

Macromolecular assembly of Helicobacter pylori urease investigated by mass spectrometry
Martijn W H Pinkse, Claudia S Maier, Jung-In Kim, Byung-Ha Oh, Albert J R Heck

Department of Biomolecular Mass Spectrometry, Bijvoet Center for Biomolecular Research and Utrecht University, Sorbonnelaan 16, 3584 CA Utrecht, The Netherlands.

FEBS Microbiol Lett. 2002 Jul 16;213 (1):67-72 12127499 (P,S,G,E,B) Cited:2

Acid stress response in *Helicobacter pylori*.

Héctor Toledo, Manuel Valenzuela, Ana Rivas, Carlos A Jerez

Programa de Biología Celular y Molecular, ICBM, Facultad de Medicina, Universidad de Chile, Casilla 7006

Helicobacter. 2002 Jun ;7 (3):175-82 12647322 (P,S,G,E,B) Cited:2

Proteome analysis of highly immunoreactive proteins of *Helicobacter pylori*.

Robert A Lock, Geoffrey W Coombs, Tracy M McWilliams, John W Pearman, Warren B Grubb, Graham J F Western Australian Proteome Analysis Facility, Western Australian Biomedical Research Institute, Perth, WA